

Abstract

[0037] An image projection device capable of hovering and flying comprises at least one buoyant body, projector, and projection surface is disclosed. The shape and volume of the buoyant body are configured such that the buoyancy it is capable of generating provides stable locations of the projector and projection surface, which are mutually remotely arranged at a separation corresponding to the projection range, the projector is arranged essentially outside a first outer surface of the buoyant body, the projection surface essentially coincides with a second outer surface of the buoyant body that is situated across from the first outer surface thereof and is essentially planar when in use, and the buoyant body has a buoyancy-free section situated between the projector and projection surface that does not significantly affect the path of the beam transiting the space between the projector and the projection surface. In the case of another embodiment, the volume of the buoyant body is configured such that the buoyancy that it is capable of generating allows stable locations of the mutually remotely arranged projector and projection surface corresponding to the projection range, the projector is arranged essentially outside a first outer surface of the buoyant body, the projection surface is essentially planar when in use, the projection surface is arranged in the vicinity of a second outer surface that is essentially situated across from the first outer surface of the buoyant body, and that the projection surface is fastened inside the buoyant body, as a separate component thereof.